

No.	x1	x2	×3	×4	x5	у
1	0.000	0.000	0. 350	0.600	0, 600	100. 0
2	0.000	0.300	0. 100	0.000	0.600	101.0
3	0.000	0.300	0.000	0.100	0, 600	100. 0
4	0. 150	0. 150	0. 100	0, 600	0.000	97. 3
5	0. 150	0.000	0. 150	0.600	0.100	97. 8
6	0.000	0. 300	0. 490	0.600	0. 051	96. 7
7	0. 000	0. 300	0.000	0. 489	0. 211	97. 0
8	0. 150	0. 127	0. 023	0.600	0.100	97. 3
9	0. 150	0.000	0. 311	0. 539	0.000	99. 7
10	0.000	0. 300	0. 285	0. 415	0.000	99. 8
11	0.000	0. 080	0. 350	0. 570	0.000	100.0
12	0. 150	0. 150	0. 266	0. 434	0.000	99. 5
13	0. 150	0. 150	0. 082	0.018	0.600	101. 9
14	0.000	0. 158	0. 142	0.100	0.600	100. 7
15	0.000	0.000	0. 300	0. 416	0. 239	100. 9
16	0. 150	0. 034	0. 116	0. 444	0.600	101. 2
17	0.068	0. 121	0. 175	0. 332	0. 192	98. 2
18	Ն. 067	0. 098	0. 234	0. 000	0. 270	100. 5
19	0.000	0. 300	0. 192	0. 208	0. 300	100. 6
20	0. 150	0. 150	0. 174	0. 226	0. 300	100.6
21	0. 075	0. 225	0. 276	0. 424	0.000	99. 1
55	0. 075	0. 225	0.000	0.100	0.600	100.4
23	0.000	0. 126	0. 174	0.600	0.100	98. 4
24	0. 075	0. 000	0. 225	0.600	0.100	98. 2
25	0. 150	0. 150	0.000	0. 324	0. 376	99. 4
26	0.000	0. 300	0. 192	0. 508	0.000	98.6

x1 = BUTANE

x2 = ISOPENETANE

x3 = REFORMATE x4 = CAT CRACKED x5 = ALKYLATE y = RESEARCH OCTANE AT 2.0 GRAMS OF LEAD/GALLON

t:18-23 t:24-29 FAULT t:12-17 NO. t:1-5 t:6-11 0.30067 0.00000 0.65190 0. 13019 0.31398 0. 69901 0.70156 0.24946 0.61443 1.00000 0. 27577 0.56790 0.56716 0.58797 0.00000 0.86528 0.30303 0.10538 0.37313 0.58352 1.00000 0.15642 0.83277 0.58065 0.67413 0.90200 0.00000 0.82369 0. 27834 0. 24731 0. 35353 0.65920 0.82405 1.00000 0.67116 0.16559 0.70601 0.00000 0.41290 0.73881 0.40958 0.35241 0.55054 0.70647 0.71269 1.00000 0.35443 0.33782 0.57350 0. 72606 0.00000 0.54702 0.59355 0.67413 0.64588 1.00000 0.34177 0.60718 0.79355 0.79851 10 0.67312 0.74833 0.00000 0.83582 0.47920 0.65208 11 0.57800 0.95025 0.74610 1.00000 12 0.35353 0.94409 0. 52561 0.00000 0.36559 0.58209 13 0.47197 0. 32099 0.55457 1.00000 0.61940 0.36528 0.39843 0.44731 14 0.34524 0.57711 0. 55457 0.00000 15 0.44123 0.29854 0.56793 1.00000 0.42150 16 0.35805 0. 35354 0. 59701 0.00000 0.72139 0.67929 0.41505 0.49005 0. 32997 17 0.72388 0.70601 1.00000 0.43656 0.31284 0.43547 18 0.71642 0. 43309 0.73497 0.00000 0.39785 0.31874 1.00000 0. 34991 0. 3625 0.73051 0.44946 0.71144 0.72160 0.00000 0.69652 0.46745 0.40860 0. 26936 1.00000 0.70398 0.70601 55 0.35262 0.37261 0.42366 0. 78358 0.82628 0.00000 0. 25253 0.59042 0. 48602 53 0. 79851 0.80401 1.00000 0.48172 0.38427 0.37486 24 0.00000 0.19753 0.40645 0.63930 0.83296 25 0.38156 0.72160 1.00000 0.34810 0.68906 0. 52189 0.44516 26 0.51225 0.00000 0.61194 27 0.75769 0.44301 0.91134 0.59453 0.49220 1.00000 1.00000 28 0.41863 1.00000 0.71715 0.00000 0.50723 0.40645 0.68159 29 0.36364 0.70156 1.00000 0.70149 0.45806 30 0.34991 0.47250

0.70647

0.70149

0.68408

0.68906

0.68906

0.70149

0.74378

0.59950

0.38279

0.38710

0.41075

0. 49247

0.44516

0.58065

0. 42366

0.36129

0.24691

0.40404

0.32660

0.34007

0.35354

0.32323

0. 26824

0 21886

31

35

33

34

35

36

37

0.54069

0.38788

0.41320

0.34991

0.39873

0.33906

0.29747

0.30561

0.73051

0.72383

0.71715

0.70379

0.69710

0.69710

0 85746

0.67038

0.00000

1.00000

0.00000

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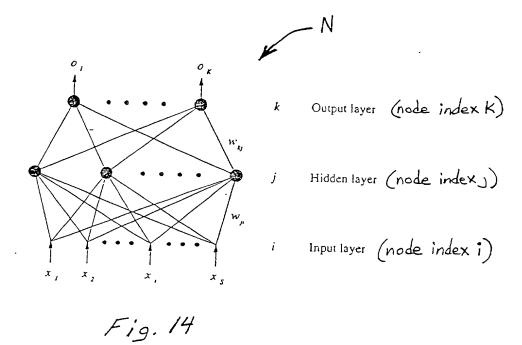
TABLE 2: TIME-DEPENDENT SENSOR DATA PROFILES

Fig. 12

TABLE 3: SEMICONDUCTOR CRYSTAL STRUCTURE PARAMETERS AND BAND GAPS

	·					
No.	COMPOUNDS	u	a	С	c/a	GAP
i	AgGaS2	0. 28	5. 75722	10. 3036	1. 790	2. 55
2	AgALS2	0. 3	5. 73	10. 3	1. 798	3. 13
3	AgGaSe2	0. 27	5. 755	10. 28	1. 786	1.8
4	CdSiAs2	0. 298	5. 884	10. 882	1. 849	1.55
5	CdGeP2	0. 2839	5. 738	10. 765	1. 876	1. 72
6	AgAlTe2	0. 26	6. 296	11. 83	1. 879	2. 25
7	CdGeAs2	0. 278	5. 9432	11. 2163	1. 887	0.6
8	AgGaTe2	0. 26	6. 3197	11. 9843	1. 896	1.1
9	AgLnTe2	0. 25	5. 836	11. 1789	1. 916	1. 9
10	CdSnP2	0. 265	5. 9	11.518	1. 952	1. 7
11	CuA1Se2	0. 26	5. 6103	10. 982	1. 957	2. 6
12	AgLnSe2	0. 25	6. 455	12. 644	1. 959	0. 96
13	CdSnAs2	0. 262	6. 09	11. 94	1. 961	0. 26
14	ZnGeP2	0. 25816	5. 46	10. 71	1. 962	2. 34
15	CuA1S2	0. 27	5. 31	10. 42	1. 96ć	3. 35
16	ZnGeAs2	0. 25	5. 66	11. 154	1. 971	0. 75
17	CuFeS2	0. 27	5. 289	10. 423	1. 971	0. 53
18	AgA1Se2	0. 27	5. 95	10. 75	1. 807	2. 6
19	CuAlTe2	0. 25	5. 964	11. 78	1. 975	2. 06
50	CuGaTe2	0. 25	6. 013	11. 934	1. 985	1. 24
21	CuTiSe2	0. 25	5. 832	11. 63	1. 994	1. 07
55	ZnSnAs2	0. 231	5. 851	11. 702	2. 000	0.65
23	ZnSnP2	0. 238	5. 65	11.3	- 2. 000	1.66
24	ZnLnSe2	0. 224	5. 784	11.614	2. 008	0. 95
25	CuLnS2	0. 2	5. 5228	11. 1321	2. 106	1.54
26	CuGaS2	0. 25	5. 555	11.0036	1. 981	1.71

Fig. 13



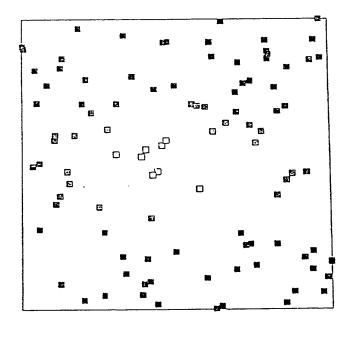
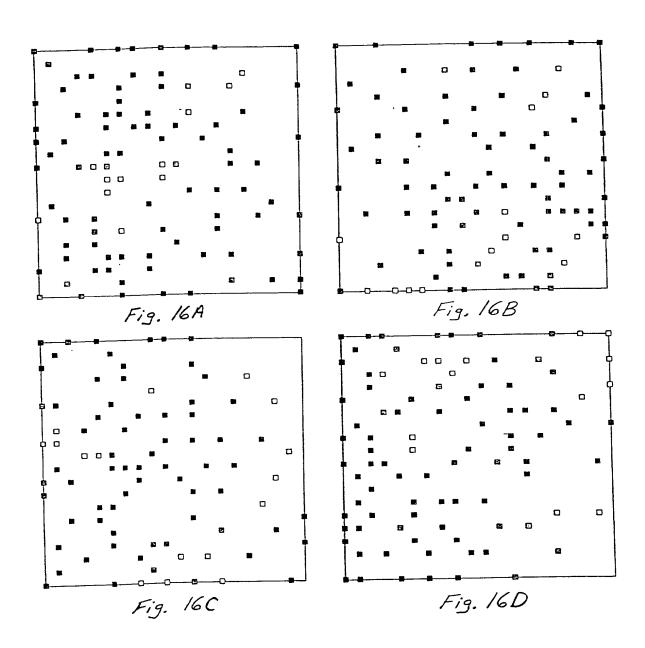
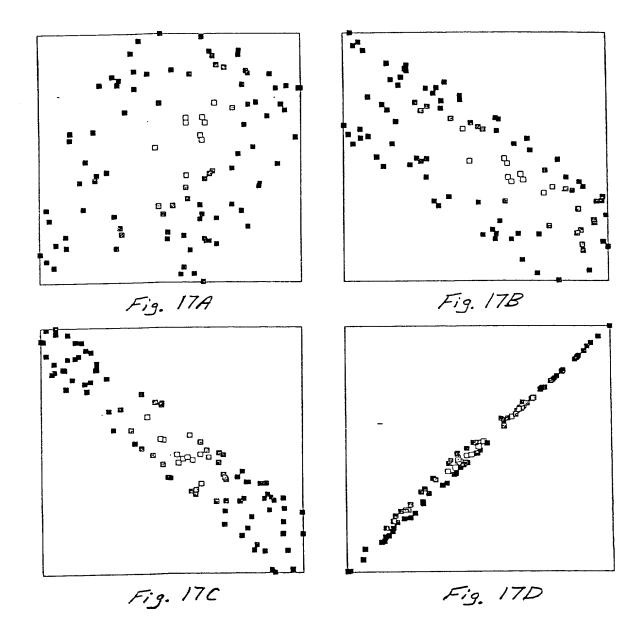
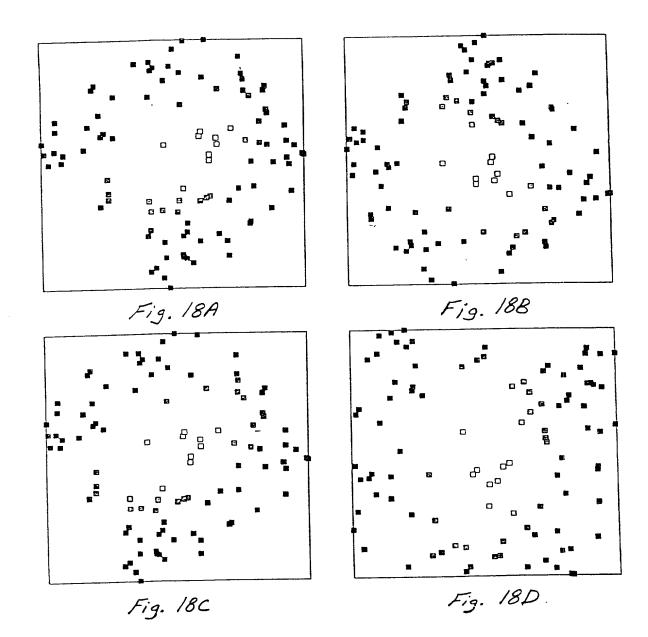
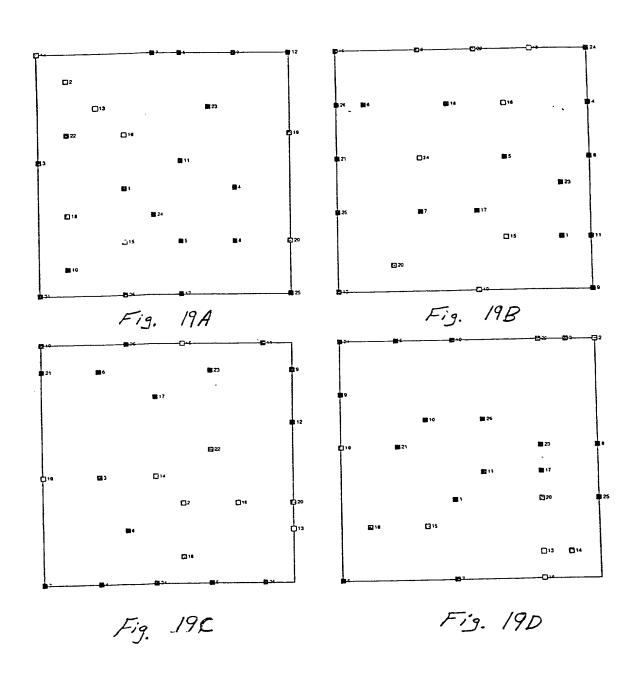


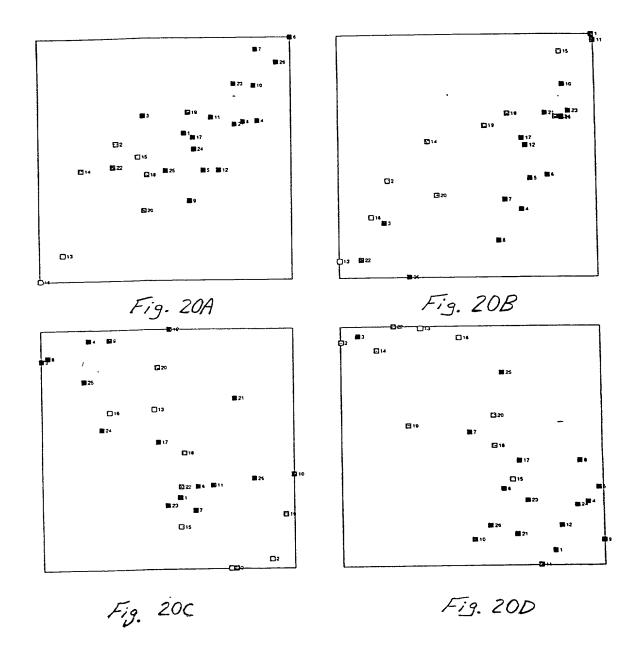
Fig. 15

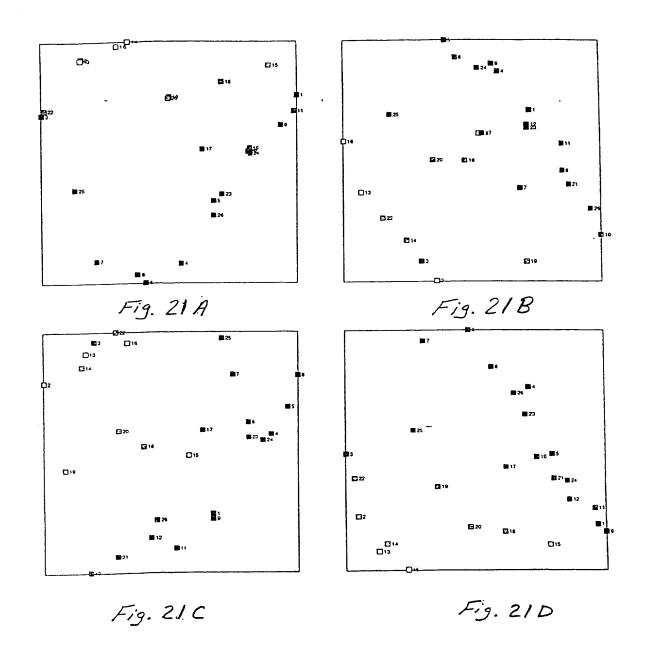












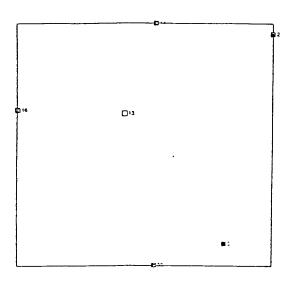


Fig. 22A

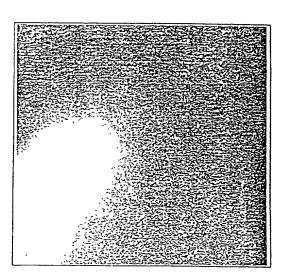


Fig. 22B